### **Puget Sound Air Pollution Control Agency**

HEREBY ISSUES AN ORDER OF APPROVAL TO CONSTRUCT, INSTALL, OR ESTABLISH

Construction No. 3265



Upgrade Glass Furnace No. 5 with electrical boost.

Marvin C Gridley, Ball-InCon Glass Packaging Corp

5801 E MARGINAL WAY S

SEATTLE

WA 98134-2497

BALL-INCON GLASS PACKAGING CORP

5801 E MARGINAL WAY S

SEATTLE WA 98134-2497

#### INSTALLATION ADDRESS

BALL-INCON GLASS PACKAGING CORP, 5801 E MARGINAL WAY S, SEATTLE, WA, 98134-2497

#### THIS ORDER IS ISSUED SUBJECT TO THE FOLLOWING RESTRICTIONS AND CONDITIONS

- 1. Approval is hereby granted as provided in Article 6 of Regulation I of the Puget Sound Air Pollution Control Agency to the applicant to install, alter or establish the equipment, device or process described hereon at the INSTALLATION ADDRESS in accordance with the plans and specifications on file in the Engineering Division of PSAPCA.
- 2. Compliance with this ORDER and its conditions does not relieve the owner or operator from the responsibility of compliance with Regulations I or II, RCW 70.94 or any other emission control requirements, nor from the resulting liabilities and/or legal remedies for failure to comply.

is approval does not relieve the applicant or owner of any requirement of any other governmental agency.

JAMES L. NOLAN Reviewing Engineer

HW

Anita J. Frankel Air Pollution Control Officer

## **Notice of Completion**

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WARNING:	Į.	656 /
ion I, Section 6.09(a), requires that the owner or appliapplication and when its operation will begin. This form is proof the Regulation.	licant notify the Agency of the completion of the work co rovided for your convenience to assist you in complying v	
APPLICANT or OWNER SECTION		
Mail to: Puget Sound Air Pollution Control Agency Plan Review Section	RECEIV	/ED
200 West Mercer Street, Room 205 Seattle, Washington 98110-3958	APR 4 19	90
Gentlemen:	PUGET SOUND AIR F CONTROL AGE	
The project described below was completed on Mon March 30, 1990	March 30, 1990 and will be	e in operation
Signature of Owner and/or Applicant	PROJ. ENG. 4/3/	Date
F GENCY USE ONLY	Notice of Constructi	on No. 3265
Project Description		
Upgrade Glass Furnace No. 5 with electrical boost.		Conditions On Reverse Side
Applicant	Owner	
Marvin C Gridley, Ball-InCon Glass Packaging Corp 5801 E MARGINAL WAY S, SEATTLE, WA, 98134-2497	BALL-INCON GLASS PACKAGING CORP 5801 E MARGINAL WAY S, SEATTLE, WA, 98134-24	97
Location		
BALL-INCON GLASS PACKAGING CORP, 5801 E MARGINAL V	WAY S, SEATTLE, WA, 98134-2497	
Inspector check Engineer	II N and Inspector check	

(Estimated completion Date Plus 7)

Inspector

See Attachment

hw

Follow-up\_

Date Inspected

Form 63-11.1, (1/89)



### PUGET SOUND AIR POLLUTION CONTROL AGENCY

ENGINEERING DIVISION
200 WEST MERCER, ROOM 205, SEATTLE, WASHINGTON 98119-3958
(206) 344-7334

-46

## Notice of Construction and Application for Approval

FOR		complete in general parts.	items 39, 40, 41, & 43 l	R	REG. NO.	N/C NUM VAR. NO COS. NO	BER 3165						
. :	No. of the Contract of the Con	to work the same of the same o			GRID NO.	UTM	第二人称 形 FD 1772						
1. TYPE OF	BUILDING (Check) 2. ST			7. APPLICA	ANT		Calle La Marie						
□ New	X Existing   Nev	√ X Existing	□ Altered □ Relocation	Same									
3. COMPA	NY (OR OWNER) NAME			8. APPLICA	ANT ADDRESS								
Ball-I	nCon Glass Packag	ging Cor	p.	Same									
	NY (OR OWNER) MAILING AC				LATION ADDRESS	-24.5	NUT OF MARKET WA						
	ast Marginal Way	South	19.11.C3.241.11.11.C	Same 10. TYPE OF PROCESS									
	OF BUSINESS		Take to the common of the common of			30,000 to 20							
Glass	Container Manufac	ture		Glass	s melting and for	ming	HE MISSINGS ON THE SE						
					GES. ENTER NUMBER OF E FORM 'S' FOR EACH E		AND THE SA						
11. NO. OF UNITS	SPACE HEATERS OR BOILERS (Complete Form S-A)	14. NO. OF UNITS	OVENS	15. NO. OF UNITS	MECHANICAL EQUIP.	16. NO. OF UNITS	MELTING FURNACES						
(a)		(a)	CORE BAKING OVEN	(a)	AREAS	(a)	РОТ						
12. NO.	INCINERATORS	(b)	PAINT BAKING	(b)	BULK CONVEYOR	(b)	REVERBERATORY						
OF UNITS	(Complete Form S-B)	(c)	PLASTIC CURING	(c)	CLASSIFIER	(c)	ELECTRIC INDUC/RESIST						
iai		(d)	LITHO COATING OVEN	(d)	STORAGE BIN	(a)	CRUCIBLE						
13. NO.	OTHER SYSTEMS	(e)	DRYER	(e)	BAGGING	(e)	CUPOLA						
OF PARTS	1	(f)	ROASTER	(f)	OUTSIDE BULK STORAGE	(f)	ELECTRIC ARC						
(a)	DEGREASING, SOLVENT	(g)	KILN	(0)	LOADING OR UNLOADING	(g)	SWEAT						
(b)	ABRASIVE BLASTING	(h)	HEAT - TREATING	(h)	BATCHING	(h)	OTHER METALLIC						
	OTHER - SYSTEM	(1)	OTHER	(1)	MIXER (SOLIDS)	(1) 1	GLASS #5 furnace						
(c)	OTHER - STSTEM												
(d)	OTHER - STSTEM	(1)		(1)	OTHER	(1)	OTHER NON METALLIC						
	GENERAL OPER. EQUIP.	17 NO	GENERALOPER.EQUIP.	17. NO. OF UNITS	GENERAL OPER. EQUIP.	18. NO. OF UNITS	OTHER NON METALLIC						
17. NO.		17. NO.	GENERALOPER.EQUIP.	17. NO.		18. NO.							
17. NO.	GENERAL OPER. EQUIP.	17. NO. OF UNITS		17. NO. OF UNITS	GENERAL OPER. EQUIP.	18. NO. OF UNITS	OTHER EQUIPMENT						
17. NO.	GENERAL OPER. EQUIP.	17. NO. OF UNITS	GALVANIZING	17. NO. OF UNITS	GENERAL OPER. EQUIP.  ASPHALT BLOWING	18. NO. OF UNITS	OTHER EQUIPMENT						
17. NO. OF UNITS (a)	GENERAL OPER. EQUIP. CHEMICAL MILLING PLATING	17. NO. OF UNITS	GALVANIZING IMPREGNATING	17. NO. OF UNITS	GENERAL OPER. EQUIP.  ASPHALT BLOWING CHEMICAL COATING	18. NO. OF UNITS (a)	OTHER EQUIPMENT  SPRAY PAINTING GUN  SPRAY BOOTH OR ROOM						
17. NO. OF UNITS  (a) (b)	GENERAL OPER. EQUIP. CHEMICAL MILLING PLATING DIGESTER	17. NO. OF UNITS  (f)	GALVANIZING IMPREGNATING MIXING OR FORMULATING	17. NO. OF UNITS (k)	GENERAL OPER. EQUIP.  ASPHALT BLOWING CHEMICAL COATING COFFEE ROASTER	18. NO. OF UNITS (a)(b)(c)	OTHER EQUIPMENT  SPRAY PAINTING GUN  SPRAY BOOTH OR ROOM FLOW COATING						
17. NO. OF UNITS  (a) (b) (c)	GENERAL OPER. EQUIP.  CHEMICAL MILLING PLATING DIGESTER DRY CLEANING FORMING OR MOLDING	17. NO. OF UNITS  (f)	GALVANIZING IMPREGNATING MIXING OR FORMULATING REACTOR STILL	17. NO. OF UNITS (k)	GENERAL OPER. EQUIP.  ASPHALT BLOWING CHEMICAL COATING COFFEE ROASTER SAWS & PLANERS STORAGE TANK QUIPMENT IN SPACES IN C	18. NO. OF UNITS  (a) (b) (c) (d) (e)	OTHER EQUIPMENT  SPRAY PAINTING GUN  SPRAY BOOTH OR ROOM  FLOW COATING  FIBERGLASSING						
17. NO. OF UNITS  (a) (b) (c)	GENERAL OPER. EQUIP.  CHEMICAL MILLING PLATING DIGESTER DRY CLEANING FORMING OR MOLDING	17. NO. OF UNITS  (f)	GALVANIZING IMPREGNATING MIXING OR FORMULATING REACTOR STILL GENTER NUMBER OF L	17. NO. OF UNITS (k)	GENERAL OPER. EQUIP.  ASPHALT BLOWING CHEMICAL COATING COFFEE ROASTER SAWS & PLANERS STORAGE TANK QUIPMENT IN SPACES IN C	18. NO. OF UNITS  (a) (b) (c) (d) (e)	OTHER EQUIPMENT  SPRAY PAINTING GUN  SPRAY BOOTH OR ROOM  FLOW COATING  FIBERGLASSING						
(d)	GENERAL OPER. EQUIP.  CHEMICAL MILLING PLATING DIGESTER DRY CLEANING FORMING OR MOLDING  CONTRO	17. NO. OF UNITS  (f)	GALVANIZING IMPREGNATING MIXING OR FORMULATING REACTOR STILL GENTER NUMBER OF L COMPLETE A FORM	17. NO. OF UNITS (k)	GENERAL OPER. EQUIP.  ASPHALT BLOWING CHEMICAL COATING COFFEE ROASTER SAWS & PLANERS STORAGE TANK QUIPMENT IN SPACES IN CHENTRY.)	18. NO. OF UNITS  (a) (b) (c) (d) (e) COLUMNS.	OTHER EQUIPMENT  SPRAY PAINTING GUN SPRAY BOOTH OR ROOM FLOW COATING FIBERGLASSING OTHER						
(d)	GENERAL OPER. EQUIP.  CHEMICAL MILLING PLATING DIGESTER DRY CLEANING FORMING OR MOLDING  CONTROL	17. NO. OF UNITS  (f)	GALVANIZING IMPREGNATING MIXING OR FORMULATING REACTOR STILL  GENTER NUMBER OF L COMPLETE A FORM  CONTROL DEVICE	17. NO. OF UNITS  (K)	GENERAL OPER. EQUIP.  ASPHALT BLOWING CHEMICAL COATING COFFEE ROASTER SAWS & PLANERS STORAGE TANK QUIPMENT IN SPACES IN CHENTRY.)	18. NO. OF UNITS  (a) (b) (c) (d) (e)  COLUMNS.  22. NO. OF UNITS	OTHER EQUIPMENT  SPRAY PAINTING GUN SPRAY BOOTH OR ROOM FLOW COATING FIBERGLASSING OTHER  CONTROL DEVICE						
(d)	GENERAL OPER. EQUIP.  CHEMICAL MILLING PLATING DIGESTER DRY CLEANING FORMING OR MOLDING  CONTRO  CONTROL DEVICE  SPRAY CURTAIN	(1)	GALVANIZING IMPREGNATING MIXING OR FORMULATING REACTOR STILL  GENTER NUMBER OF L COMPLETE A FORM  CONTROL DEVICE  AIR WASHER	17. NO. OF UNITS (K) (I) (m (n) (o)  JNITS OF EC R FOR EACI 21. NO. OF UNITS	GENERAL OPER. EQUIP.  ASPHALT BLOWING CHEMICAL COATING COFFEE ROASTER SAWS & PLANERS STORAGE TANK QUIPMENT IN SPACES IN CHENTRY.)  CONTROL DEVICE ABSORBER	18. NO. OF UNITS  (a) (b) (c) (d) (e)  COLUMNS.  22. NO. OF UNITS  (a)	OTHER EQUIPMENT  SPRAY PAINTING GUN SPRAY BOOTH OR ROOM FLOW COATING FIBERGLASSING OTHER  CONTROL DEVICE  DEMISTER						
(d)	GENERAL OPER. EQUIP.  CHEMICAL MILLING PLATING DIGESTER DRY CLEANING FORMING OR MOLDING  CONTRO  CONTROL DEVICE  SPRAY CURTAIN CYCLONE	(f)	GALVANIZING IMPREGNATING MIXING OR FORMULATING REACTOR STILL  GENTER NUMBER OF L COMPLETE A FORM  CONTROL DEVICE  AIR WASHER WET COLLECTOR	17. NO. OF UNITS (k)	GENERAL OPER. EQUIP.  ASPHALT BLOWING CHEMICAL COATING COFFEE ROASTER SAWS & PLANERS STORAGE TANK QUIPMENT IN SPACES IN CHENTRY.)  CONTROL DEVICE  ABSORBER ADSORBER FILTER PADS AFTERBURNER	18. NO. OF UNITS  (a)	OTHER EQUIPMENT  SPRAY PAINTING GUN SPRAY BOOTH OR ROOM FLOW COATING FIBERGLASSING OTHER  CONTROL DEVICE  DEMISTER BAGHOUSE ELEC. PRECIPITATOR OTHER						
(d)	CHEMICAL MILLING PLATING DIGESTER DRY CLEANING FORMING OR MOLDING  CONTROL  CONTROL  SPRAY CURTAIN CYCLONE MULTIPLE CYCLONE INERTIAL COLL. — OTHER	17. NO. OF UNITS  (f)	GALVANIZING IMPREGNATING MIXING OR FORMULATING REACTOR STILL  GENTER NUMBER OF L COMPLETE A FORM  CONTROL DEVICE  AIR WASHER WET COLLECTOR VENTURI SCRUBBER  OL EQUIPMENT COST	17. NO. OF UNITS  (k)	GENERAL OPER. EQUIP.  ASPHALT BLOWING CHEMICAL COATING COFFEE ROASTER SAWS & PLANERS STORAGE TANK QUIPMENT IN SPACES IN CHENTRY.)  CONTROL DEVICE  ABSORBER ADSORBER FILTER PADS AFTERBURNER	18. NO. OF UNITS  (a)	OTHER EQUIPMENT  SPRAY PAINTING GUN  SPRAY BOOTH OR ROOM  FLOW COATING  FIBERGLASSING  OTHER  CONTROL DEVICE  DEMISTER  BAGHOUSE  ELEC. PRECIPITATOR  OTHER  F OPERATION (Circle)						
(d)	GENERAL OPER. EQUIP.  CHEMICAL MILLING PLATING DIGESTER DRY CLEANING FORMING OR MOLDING  CONTROL  CONTROL  SPRAY CURTAIN CYCLONE MULTIPLE CYCLONE INERTIAL COLL. — OTHER EQUIPMENT COST (10)  171,000	17. NO. OF UNITS  (f)	GALVANIZING IMPREGNATING MIXING OR FORMULATING REACTOR STILL  GENTER NUMBER OF L COMPLETE A FORM  CONTROL DEVICE  AIR WASHER WET COLLECTOR VENTURI SCRUBBER  OL EQUIPMENT COST ate)	17. NO. OF UNITS (k) (l) (m (n) (o)  JNITS OF EC R FOR EACI 21. NO. OF UNITS (a) (b) (c) (d) 25. DAILY FROM	GENERAL OPER. EQUIP.  ASPHALT BLOWING CHEMICAL COATING COFFEE ROASTER SAWS & PLANERS STORAGE TANK QUIPMENT IN SPACES IN CHENTRY.)  CONTROL DEVICE  ABSORBER ADSORBER FILTER PADS AFTERBURNER HOURS 24 AM toPM	18. NO. OF UNITS  (a) (b) (c) (d) (e)  COLUMNS.  22. NO. OF UNITS  (a) (b) (c) (d) (c) (d) (c) (d) (c)	OTHER EQUIPMENT  SPRAY PAINTING GUN  SPRAY BOOTH OR ROOM  FLOW COATING  FIBERGLASSING  OTHER  CONTROL DEVICE  DEMISTER  BAGHOUSE  ELEC. PRECIPITATOR  OTHER  F OPERATION (Circle)  T W T F S						
(d)	CHEMICAL MILLING PLATING DIGESTER DRY CLEANING FORMING OR MOLDING  CONTROL  CONTROL  SPRAY CURTAIN CYCLONE MULTIPLE CYCLONE INERTIAL COLL. — OTHER	17. NO. OF UNITS  (f)	GALVANIZING IMPREGNATING MIXING OR FORMULATING REACTOR STILL  GENTER NUMBER OF L COMPLETE A FORM  CONTROL DEVICE  AIR WASHER WET COLLECTOR VENTURI SCRUBBER  OL EQUIPMENT COST ate)	17. NO. OF UNITS (k) (l) (m (n) (o)  JNITS OF EC R FOR EACI 21. NO. OF UNITS (a) (b) (c) (d) 25. DAILY FROM 28. ESTIMA	GENERAL OPER. EQUIP.  ASPHALT BLOWING CHEMICAL COATING COFFEE ROASTER SAWS & PLANERS STORAGE TANK QUIPMENT IN SPACES IN CHENTRY.)  CONTROL DEVICE  ABSORBER ADSORBER FILTER PADS AFTERBURNER HOURS 24	18. NO. OF UNITS  (a) (b) (c) (d) (e)  COLUMNS.  22. NO. OF UNITS  (a) (b) (c) (d) (c) (d) (c) (d) (c)	OTHER EQUIPMENT  SPRAY PAINTING GUN  SPRAY BOOTH OR ROOM  FLOW COATING  FIBERGLASSING  OTHER  CONTROL DEVICE  DEMISTER  BAGHOUSE  ELEC. PRECIPITATOR  OTHER  F OPERATION (Circle)  T W T F S						
17. NO. OF UNITS  (a)	CHEMICAL MILLING PLATING DIGESTER DRY CLEANING FORMING OR MOLDING  CONTROL  CONTROL  SPRAY CURTAIN CYCLONE MULTIPLE CYCLONE INERTIAL COLL. — OTHER EQUIPMENT COST  171,000 ITED STARTING DATE OF COCCEMber, 1990  ATERIALS (List starting maximum)	17. NO. OF UNITS  (1) (9) (h (i) (j)  L DEVICES  20. NO. OF UNITS  (a) (b) (c) (d)  24. CONTR (Estimate)  (ESTIMATE)  (ESTIMATE)  (ESTIMATE)  (ESTIMATE)  (C) (C) (C) (C) (C) (C) (C) (C) (C) (	GALVANIZING IMPREGNATING MIXING OR FORMULATING REACTOR STILL  GENTER NUMBER OF L COMPLETE A FORM  CONTROL DEVICE  AIR WASHER WET COLLECTOR VENTURI SCRUBBER  OL EQUIPMENT COST ate)  To process) ANNUAL AMT.	17. NO. OF UNITS  (K)	GENERAL OPER. EQUIP.  ASPHALT BLOWING CHEMICAL COATING COFFEE ROASTER SAWS & PLANERS STORAGE TANK QUIPMENT IN SPACES IN CHENTRY.)  CONTROL DEVICE  ABSORBER ADSORBER FILTER PADS AFTERBURNER HOURS 24 AM to PM ATED COMPLETION DATE OF	18. NO. OF UNITS  (a) (b) (c) (d) (e)  COLUMNS.  22. NO. OF UNITS  (a) (b) (c) (d) (c) (d) (c) (d) (c)	OTHER EQUIPMENT  SPRAY PAINTING GUN  SPRAY BOOTH OR ROOM  FLOW COATING  FIBERGLASSING  OTHER  CONTROL DEVICE  DEMISTER  BAGHOUSE  ELEC. PRECIPITATOR  OTHER  FOPERATION (CITCLE)  TWO TES						
17. NO. OF UNITS  (a)	CHEMICAL MILLING PLATING DIGESTER DRY CLEANING FORMING OR MOLDING  CONTROL  CONTROL  SPRAY CURTAIN CYCLONE MULTIPLE CYCLONE INERTIAL COLL. — OTHER EQUIPMENT COST  171,000  TED STARTING DATE OF COCCEMBER, 1990	17. NO. OF UNITS  (f)	GALVANIZING IMPREGNATING MIXING OR FORMULATING REACTOR STILL  GENTER NUMBER OF L COMPLETE A FORM  CONTROL DEVICE  AIR WASHER WET COLLECTOR VENTURI SCRUBBER  OL EQUIPMENT COST ate)  TO DO TO	17. NO. OF UNITS  (K)	GENERAL OPER. EQUIP.  ASPHALT BLOWING CHEMICAL COATING COFFEE ROASTER SAWS & PLANERS STORAGE TANK CUIPMENT IN SPACES IN CHENTRY.)  CONTROL DEVICE  ABSORBER ADSORBER FILTER PADS AFTERBURNER HOURS 24 AM to PM ATED COMPLETION DATE OF ecember, 1990	18. NO. OF UNITS  (a)	OTHER EQUIPMENT  SPRAY PAINTING GUN  SPRAY BOOTH OR ROOM  FLOW COATING  FIBERGLASSING  OTHER  CONTROL DEVICE  DEMISTER  BAGHOUSE  ELEC. PRECIPITATOR  OTHER  FOPERATION (Circle)  TOW T F S  ION:  ANNUAL PROD.  TOTIS UNITS						
(d)	CHEMICAL MILLING PLATING DIGESTER DRY CLEANING FORMING OR MOLDING  CONTROL  CONTROL  SPRAY CURTAIN CYCLONE MULTIPLE CYCLONE INERTIAL COLL. — OTHER EQUIPMENT COST  171,000 ITED STARTING DATE OF COCCEMber, 1990  ATERIALS (List starting maximum)	17. NO. OF UNITS  (1) (9) (h (i) (j)  L DEVICES  20. NO. OF UNITS  (a) (b) (c) (d)  24. CONTR (Estimate)  (ESTIMATE)  (ESTIMATE)  (ESTIMATE)  (ESTIMATE)  (C) (C) (C) (C) (C) (C) (C) (C) (C) (	GALVANIZING IMPREGNATING MIXING OR FORMULATING REACTOR STILL  GENTER NUMBER OF L COMPLETE A FORM  CONTROL DEVICE  AIR WASHER WET COLLECTOR VENTURI SCRUBBER  OL EQUIPMENT COST ate)  Tors Units 24,200	17. NO. OF UNITS (K) (I) (II) (III) (III) (IIII) (IIII) (IIIIIIII	GENERAL OPER. EQUIP.  ASPHALT BLOWING CHEMICAL COATING COFFEE ROASTER SAWS & PLANERS STORAGE TANK CUIPMENT IN SPACES IN CHENTRY.)  CONTROL DEVICE  ABSORBER ADSORBER FILTER PADS AFTERBURNER HOURS 24 AM to PM ATED COMPLETION DATE OF ecember, 1990	18. NO. OF UNITS  (a)	OTHER EQUIPMENT  SPRAY PAINTING GUN  SPRAY BOOTH OR ROOM  FLOW COATING  FIBERGLASSING  OTHER  CONTROL DEVICE  DEMISTER  BAGHOUSE  ELEC. PRECIPITATOR  OTHER  FOPERATION (CITCLE)  TWO TES						
(d)	CHEMICAL MILLING PLATING DIGESTER DRY CLEANING FORMING OR MOLDING  CONTROL  CONTROL  SPRAY CURTAIN CYCLONE MULTIPLE CYCLONE INERTIAL COLL. — OTHER EQUIPMENT COST 171,000  TED STARTING DATE OF COCCEMBER, 1990  ATERIALS (List starting magnets) JELS (Type and amount)	17. NO. OF UNITS  (1) (9) (h (i) (j)  L DEVICES  20. NO. OF UNITS  (a) (b) (c) (d)  24. CONTR (Estimate)  (ESTIMATE)  (ESTIMATE)  (ESTIMATE)  (ESTIMATE)  (C) (C) (C) (C) (C) (C) (C) (C) (C) (	GALVANIZING IMPREGNATING MIXING OR FORMULATING REACTOR STILL  GENTER NUMBER OF L COMPLETE A FORM  CONTROL DEVICE  AIR WASHER WET COLLECTOR VENTURI SCRUBBER  OL EQUIPMENT COST ate)  Tons Units 24,200 7,500	17. NO. OF UNITS (K) (I) (II) (III) (III) (IIII) (IIII) (IIIIIIII	GENERAL OPER. EQUIP.  ASPHALT BLOWING CHEMICAL COATING COFFEE ROASTER SAWS & PLANERS STORAGE TANK QUIPMENT IN SPACES IN CHENTRY.)  CONTROL DEVICE  ABSORBER ADSORBER FILTER PADS AFTERBURNER HOURS 24 AM to PM STED COMPLETION DATE OF ecember, 1990 CTS (List End Products)	18. NO. OF UNITS  (a)	OTHER EQUIPMENT  SPRAY PAINTING GUN  SPRAY BOOTH OR ROOM  FLOW COATING  FIBERGLASSING  OTHER  CONTROL DEVICE  DEMISTER  BAGHOUSE  ELEC. PRECIPITATOR  OTHER  FOPERATION (Circle)  TOW T F S  ION:  ANNUAL PROD.  TOTIS UNITS						
17. NO. OF UNITS  (a)	GENERAL OPER. EQUIP.  CHEMICAL MILLING PLATING DIGESTER DRY CLEANING FORMING OR MOLDING  CONTROL  CONTROL  SPRAY CURTAIN CYCLONE MULTIPLE CYCLONE INERTIAL COLL. — OTHER EQUIPMENT COST (10) 171,000 (TED STARTING DATE OF COCCEMBER, 1990  ATERIALS (List starting materials (Type and amount))  d  a Ash estone	17. NO. OF UNITS  (1) (9) (h (i) (j)  L DEVICES  20. NO. OF UNITS  (a) (b) (c) (d)  24. CONTR (Estimate)  (ESTIMATE)  (ESTIMATE)  (ESTIMATE)  (ESTIMATE)  (C) (C) (C) (C) (C) (C) (C) (C) (C) (	GALVANIZING IMPREGNATING MIXING OR FORMULATING REACTOR STILL  GENTER NUMBER OF L COMPLETE A FORM  CONTROL DEVICE  AIR WASHER WET COLLECTOR VENTURI SCRUBBER  OL EQUIPMENT COST ate)  Tons Units 24,200 7,500 6,300	17. NO. OF UNITS  (k)	GENERAL OPER. EQUIP.  ASPHALT BLOWING CHEMICAL COATING COFFEE ROASTER SAWS & PLANERS STORAGE TANK QUIPMENT IN SPACES IN CHENTRY.)  CONTROL DEVICE  ABSORBER ADSORBER FILTER PADS AFTERBURNER HOURS 24 AM to PM STED COMPLETION DATE OF ecember, 1990 CTS (List End Products)	18. NO. OF UNITS  (a)	OTHER EQUIPMENT  SPRAY PAINTING GUN  SPRAY BOOTH OR ROOM  FLOW COATING  FIBERGLASSING  OTHER  CONTROL DEVICE  DEMISTER  BAGHOUSE  ELEC. PRECIPITATOR  OTHER  FOPERATION (Circle)  TOW T F S  ION:  ANNUAL PROD.  TOTIS UNITS						
17. NO. OF UNITS  (a) (b) (c) (d) (e)  19. NO. OF UNITS  (a) (b) (c) (c) (d) 23. BASIC (Estima  De  27. ESTIMA AND FO  (a) (b) (c) (c) (d) (c) (d) (d) (d) (d) (e) (d) (e) (e) (f) (ii) (iii) (i	GENERAL OPER. EQUIP.  CHEMICAL MILLING PLATING DIGESTER DRY CLEANING FORMING OR MOLDING  CONTROL  CONTROL  CONTROL  CONTROL  CONTROL  SPRAY CURTAIN  CYCLONE MULTIPLE CYCLONE INERTIAL COLL. — OTHER  EQUIPMENT COST  OCCUMBER, 1990  ATERIALS (List starting materials)  JELS (Type and amount)  d  A Sh estone  t Cake	17. NO. OF UNITS  (1) (9) (h (i) (j)  L DEVICES  20. NO. OF UNITS  (a) (b) (c) (d)  24. CONTR (Estimate)  (ESTIMATE)  (ESTIMATE)  (ESTIMATE)  (ESTIMATE)  (C) (C) (C) (C) (C) (C) (C) (C) (C) (	GALVANIZING IMPREGNATING MIXING OR FORMULATING REACTOR STILL  GENTER NUMBER OF L COMPLETE A FORM  CONTROL DEVICE  AIR WASHER WET COLLECTOR VENTURI SCRUBBER  OL EQUIPMENT COST ate)  Tons UNITS 24,200 7,500 6,300 37	17. NO. OF UNITS (K) (I) (II) (III) (IIII) (III)	GENERAL OPER. EQUIP.  ASPHALT BLOWING CHEMICAL COATING COFFEE ROASTER SAWS & PLANERS STORAGE TANK QUIPMENT IN SPACES IN CHENTRY.)  CONTROL DEVICE  ABSORBER ADSORBER FILTER PADS AFTERBURNER HOURS 24 AM to PM STED COMPLETION DATE OF ecember, 1990 CTS (List End Products)	18. NO. OF UNITS  (a)	OTHER EQUIPMENT  SPRAY PAINTING GUN  SPRAY BOOTH OR ROOM  FLOW COATING  FIBERGLASSING  OTHER  CONTROL DEVICE  DEMISTER  BAGHOUSE  ELEC. PRECIPITATOR  OTHER  FOPERATION (Circle)  TOW T F S  ION:  ANNUAL PROD.  TOTIS UNITS						
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## **Notice of Construction Application**

STACKS OR VENTS (LIST NUMBER, TYPE, AND SIZE OF VENT)

1. NO.	DESCRIPTION	32. HEIGHT ABOVE	33. VOLUME	DIMENSIONS (INCHES)				
F UNITS	OF OPENING	GRADE (FT.)	(ACFM)	34. LENGTH (OR DIAM)	35. WIDTH			
1	STACKS	70	39,000	38.5" diam.	0 2			
0)	FLUES	A STADIL	Office Late 1	and the second	1 36			
c)	PROCESS OR GENERAL EXHAUST							
d)	PROCESS OR GENERAL VENTS							
9)	SKYLIGHT OR WINDOW	712 ( - 2)						
1)	EXHAUST HOOD	7-3.4	23.50	200000000000000000000000000000000000000				
3)	OTHER	6 1	A HERONA	AND THE RESERVE OF THE PERSON				

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SIGNATURE		40. DATE 6-29-89
TYPE OF PRINTINAME	A2 TITLE	43. PHO

MARVINC. GRIDLEY

PROTECT ENGINEER

Ball-InCon Glass Packaging Corp. Seattle, Washington

Form P - #5 Furnace

29. Raw Materials

Fue1

Natural Gas - 211,400 MCF Electric Boost - 8,640 M KWH

# PUGET SOUND AIR POLLUTION CONTROL AGENCY Flats

200 WEST MERCER STREET .

• SEATTLE, WASHINGTON 98109 • (206) 296 7334

## Notice of Construction and Application for Appr

\*Note: Information required by Section 1a must be completed, for this form to be accepted for review.

- (				
1	FOR BASIC PRO	CESS EQUIPMENT	FORM S	Tune 27 1989
		N SHEET BEFORE FORWARDING		DATE June 27, 1989
	** COMPLETE THE SECTIONS INDICATED 7	2 = 3 × 5 = 6 8 × 9 = 10 = 11 × 12	5801 East Marginal	
	c. COMPANY (OR OWNER) NAME Ball-InCon Glass Pac		d. APPLICANT Same	
7	e. PREPARED BY: (Name and title M. C. Gridley, Proj.		1. PREPARED BY: (Signature)	g. PHONE 317/741-7145
_		b. Title	c. Make and Model	d. Dimensions (LxWxH)
2	DATA	No. 5 Glass Furnace	Ball-InCon	27'-6" x 16'x34"
	e. No. of units; rated capacity $oxed{1}$	135 tons/day	g. Auxiliary Equipment Electric boost	h. Connected To:
2	a. ◀ ▶	b.	с.	d.
3	е.	f	g. Equipment	h. Connected To:
4	a. ◀ BURNER DATA ▶	combustion Tech-gas/oil	03-RF-MS-300-1469-15	d. Rated Capacity 12 MM Btu/hr
	e. No. of units; ignition method		g. CFM Exhausted (Temperature) 34,000 @2800°F ( %)	h. Connected To:
5	STACKS, VENTS AND EXHAUST OPENINGS	b. Type of Vent Stack	c. Dimensions 38.5" diam.	70 ft. high
	e. No. of vents; Material of construction	Steel	39,000 @ 620°F ( ° <sub>F</sub> )	h. Connected To:
1	ANKS AND KETTLES	b. Type of Tank, Material	c. Dimensions (LxWxH) in inches	G. Surface Area (Sq. Ft.)
6	eo. of tanks; Material of construction	f.	g. Auxiliary Equipment	h. Connected To:
	a. ◀ FAN DATA ▶	b. Type of Fan (Designate Blade)	C. Make and Model	d. Motor Data
'	e. No. of fans; Material of construction	f.	g. CFM Exhausted (Temperature)	h. Connected To:
R	a. ◀OVENS AND FURNACES	b. Type of Oven or Furnace End-Port Regenerative	c. Make and Model Ball-InCon	d. Rated Capacity 135 tons/day
	e. No. of ovens; Material of construction	Refractory	g. CFM Exhausted (Temperature) 39,000 @ 620°F ( °F)	h. Connected To:
T	a.   ■ OPERATIONAL DATA ▶	b. Type of Operation	7 d/wk	d. Mode of Operations
9	e. Duration of Batch (Hrs/Batch)	Batch Continuous	SHIFTS/DAY 1 2 3 g. Daily Number of Batches	☐ Manual ☐ Auto ☒ Semi-Auto
1			43 (Ave) 47 (Max)	
	d. ✓ CONVEYOR DATA ▶	b. Type of Conveyor (Pheumatic, Solt)	C. Make and Model	d. Capacity
1	e. Dimensions (LxWxH)	1.	g. No. of Pickups No. of Discharge Pts	h. Connected To:
Ť	GAS FLOW	b. ACTUAL CFM	c. SCFM (Reg I Standard)	d. TEMPERATURE (*F)
1	e. PRESSURE DROP	i. Enriciency	g. INLET AND OUTLET POLLUTANT CONCENTRATIONS	h.
I	and Additional Data	ATTACH BROCHURE	C. ATTACH PLANS/SPECS.	ATTACH EMISSION ESTIMATE
1	SUBMIT NARRATIVE DESCRIPTION OF PROCESS	SUBMIT SOURCE TEST DATA	SUBMIT MODELING DATA	ATTACH A SCHEDULE OF EQUIPMENT WITH MAKE, MODEL, CAPACITY
	" afor x afor	Complete able 1,21	k	' <sup>2</sup>
	ORM 50-149-1 (6/83)	XXX	moducations	

### TABLE EMISSION SOURCES

List all sources, including this application, of air contaminants on applicant's property. If applicant has submitted this information in an earlier emission inventory, it will not be necessary to duplicate the requested information. Instead, indicate that this page has been submitted and list only changes from the emission inventory and list new source data.

#### **ALL SOURCES**

#### STACKS ONLY

Contraction of the second second second	ALL SOURCES			STACKS ONE!								
EMISSION POINT NUMBER from plot plan	LIST POLLUTANT EMISSIONS (CHEMICAL COMPOSITION) & WT. OF EACH	EACI EM	RATE OF H LISTED ISSION PARTICULATE	EMISSION POINT NUMBER from plot plan	STACK HEIGHT ABOVE GROUND (ft.)	STACK INTERNAL DIAMETER AT EXIT	TEMP. DEG. (F)	VELOCITY (FT/SEC)	MOIS. %			
Existing	5											
5	95% Na <sub>2</sub> SO <sub>4</sub>		5.8 lb/hr.	5	70	3.2	620	72.7	8.5			
	5% CaSO <sub>4</sub>											
With add	litional electric boost											
5	95% Na <sub>2</sub> SO <sub>4</sub>		2.3 1b/hr.	5	70	3.2	550	65	8.5			
	5% CaSO <sub>4</sub>											

#### **ENCLOSE THE FOLLOWING INFORMATION:**

- 1. EMISSIONS OTHER THAN THROUGH STACKS (HORIZONTAL VENTS, ETC.)
- 2. STACK'S HEIGHT ABOVE SUPPORTING OR ADJACENT STRUCTURES.
- 3. DIMENSIONS OF NON-CIRCULAR STACKS.
- 4. RESULTS OF TESTS INDICATING AVERAGE PARTICLE SIZE, DENSITY, ETC.

#### MATERIAL BALANCE

material balance table is used to quantify possible emissions of air contaminants and special emphasis should be placed on poal air contaminants, for example: If feed contains sulfur, show distribution to all products. Please relate each material (or group of materials) listed to its respective location in the process flow diagram by assigning point numbers (taken from the flow diagram) to each material.

LIST EVERY MATERIAL INVOLVED IN EACH OF THE FOLLOWING GROUPS	Point No. from Flow Diagram	Process Rate (lbs/hr or SCFM) standard conditions: 70°F 14.7 PSIA. Check appropriate column at right for each process.	Measurement	Estimation	Calculation
l. Raw Materials - Input Salt Cake Iron Pyrites	5	Existing-Salt Cake-18 lb/hr. Iron Pyrites-14 lb/hr. With additional electric boos			X X
2. Fuels - Input	(	no change		, 1	
3. Products & By-Products - Output					
4. Solid Wastes - Output					
5. Liquid Wastes - Output					
6. Airborne Waste (Solid) - Output Particulate matter	5	Existing - 5.8 lb/hr.  With additional electric book 2.3 lb/hr.	X	Х	
7. Airborne Wastes (Gaseous) - Output					2

#### TABLE 4

#### **COMBUSTION UNITS**

				OPERATIO	NAL DATA						
Number from flow	diagram	ı: 5		uprophyddigia gwedi airhad 1950 f 140 M 140 M 160 An Mhigh-As	Model Nu	ımber (if available):					
Name of device:	No. 5	Glass Mel	ting l	Turnace	Manufact	turer: Ball-InCo	on				
			СН	ARACTERIS	TICS OF IN	PUT					
				C	hemical Com	mical Composition					
		Material		Min. Value I lb/h		Ave. Value Expected lb/hr	d	Design Maximum lb/hr			
Waste Material*	1.	1									
waste waterial	2.										
	3.										
	4.										
	5.										
Gross Heating V of Waste Mater (Wet basis if appl	rial	Btu/lb		pplied for Material	Minimum SCFM (70°F & 14.7 psia)			Maximum CFM (70°F & 14.7 psia)			
Waste Material o				Flow Rate b/hr		Inlet Temperature oF					
Contaminated Ga		Minimum Ex	pected	Design 	Maximum	Minimum Exped	cted	Design Maximum			
				C	hemical Con	position		•			
		Material		Min. Value I		Ave. Value Expecte	d	Design Maximum lb/hr			
Fuel	1.	Nat. Gas				25,700 cfh		27,000 cfh			
	2.										
	3.										
	4.										
Gross Heating Value of Fuel 1034				ipplied for Fuel	1	inimum 00F & 14.7 psia) 4700	S	Maximum CFM (70°F & 14.7 psia) - 4900			

(הפינים)

<sup>\*</sup>Describe how waste material is introduced into combustion unit on an attached sheet. Supply drawings, dimensioned and to scale to show clearly the design and operation of the unit.

#### TABLE 4

#### **COMBUSTION UNITS**

			0	PERATIO	NAL DATA						
Number from flow	diagram	n: 5			Model Nu	ımber (if available):					
Name of device:	No. 5	Glass Melt	ing Fur	nace	Manufact	turer: Ball	-InCo	on			
			СНА	RACTERIS	TICS OF IN	PUT					
			Chemical Composition								
		Material	М	in. Value E lb/h		Ave. Value Expected lb/hr	d	Design Maximum lb/hr			
Waste Material*	1.					·					
Waste Material	2.										
	3.							1			
	4.										
	5.										
of Waste Mate	Gross Heating Value of Waste Material (Wet basis if applicable)			olied for Aaterial	Minimum SCFM (70°F & 14.7 psia)			Maximum FM (70°F & I4.7 psia)			
Waste Material o			Total Flo			Inlet Temperature oF					
Contaminated Ga	-	Minimum Ex	pected	Design	Maximum	Minimum Expected Design Maxim					
				C	hemical Com	position					
		Material	М	in. Value I lb/h		Ave. Value Expecte	d	Design Maximum lb/hr			
Fuel	1.	Nat. Ga	s			19,700 cfh		27,000 cfh			
	2.						T				
	3.										
	4.										
Gross Heating Value Btu/16 of Fuel 1034			Air Supr			inimum 00F & 14.7 psia) 3600	so	Maximum CFM (70°F & 14.7 psia) 4900			

(over)

<sup>\*</sup>Describe how waste material is introduced into combustion unit on an attached sheet. Supply drawings, dimensioned and to scale to show clearly the design and operation of the unit.

#### TABLE 21 FURNACE DATA SHEET

Number from flow d	iegram N	o. 5 - Exist	ing			Furnace 7	Гуре	
Furnace Manufacture	er Ba	11-InCon				Electric	Arc	
Model Number			~		-	Reverberatory	Channel	
Size (Dimensions)						_ Crucible	Coreless	
27.5' x 16'x34	."					. Pot		
27.5						Annealing or H	Γ Cupola	
						Reheat	Retort	
						_ Blast	_X_Other	
					End-	Port Regenerati	ve	
			FURNACE C	PERATIO	ON			
Metal Type Melted	G	lass			Type I	leat Additives		
Melting Capacity (to	ons/hr.)	5.63			Qty. o	f Heat Additives		
Holding Capacity (to	ons)	94			Pourin	g Temp. (°F) 21	00	
Charge Makeup	1.	<i>C.</i>			Afterb	ourner (BTU/hr.)		
Sand, soda ash colorants	ı, limest	one, fining	agents,		Ductil	e Iron Prod. (tons/hr.)	)	
g Method	Gana				Metho	od Temp. Control		
Jaysen Injection					Tuyer	re Air (SCFM*)		
		СН	ARACTERISTI	THE RESERVE OF THE PERSON NAMED IN	JEL INPUT			
Fuel Type	Chemical	Composition weight)	Inlet Air To	mp.		Fuel Flow Rate (SCFM* or lb/hr.)		
Natural Gas			Ambient		Average 428 sc	:fm	<b>Design Max.</b> 450 scfm	
			Total Air Sup (SCFM*	plied		Gross Heating V (specify uni	alue of Fuel	
			4700			1034 Btu/f		
		CI	ARACTERISTI	CS OF ST	ACK OITTPI	TT .		
Material Emitted		Cn			n and Rate o			
Particulate ma	atter	95% sodium 5% calciu	sulfate	- III OSITIO		lb/hr.		
			STACK P	ARAME1	TERS			
Stack Diame	ter	Stack He	ght	Tem	p. of	Velocity	Moisture %	
.5 in		70 ft		620 72.7 8.5				

Also supply an assembly drawing, dimensions, and to scale, in as many sections as are needed to show clearly the operation of the furnace.

#### TABLE 21 FURNACE DATA SHEET

Number from flow diagram No	. 5 - with a	dditional (	electric b	oost	Furnace	Туре				
Furnace Manufacturer Ball	-InCon				_Electric	Arc				
Model Number					Reverberatory	Channel				
Size (Dimensions)					_ Crucible	Coreless				
27.5' x 16'x34"				Pot						
				Annealing or HT C						
					_ Reheat	Retort				
					_ Blast	X Other				
				End-F	Port Regenerati	ve				
		FURNACE	OPERATION							
Metal Type Melted Gla	.ss			Type I	Heat Additives					
Melting Capacity (tons/hr.)	5.63			Qty. o	f Heat Additives					
Holding Capacity (tons)	94	an authreid dan ein before der geneutligen der einge gemein der der eine		Pourin	ng Temp. ( <sup>O</sup> F)	2100				
Charge Makeup	finina			Afterburner (BTU/hr.)						
Sand, soda ash, limest colorants	one, fining	agents,		Ductil	le Iron Prod. (tons/h	.)				
g Method Gana	L			Metho	od Temp. Control					
Jaygen Injection				Tuyer	re Air (SCFM*)					
	СН	ARACTERIST		, INPUT						
Fuel Type Chemical	Composition y Weight)	Inlet Air 7	Temp.		Fuel Flow Rate (SCFM* or lb/hr.)					
Natural Gas		Ambient	A	verage		Design Max.				
	-			328 scfm 450 s						
		Total Air Sur (SCFM	pplied		Gross Heating (specify u	Value of Fuel its)				
		3600			1034 Bt	u/ft <sup>3</sup>				
	CH	ARACTERIST	TICS OF STAC	K OUTPU	UT .					
Material Emitted			Composition a							
Particulate matter	95% sodium 5% calciu	the same of the sa	2.3 1b/hr.							
		STACK	PARAMETER	S						
Stack Diameter	Stack Hei	ght	Temp.							
38.5 in	70 ft.		550		65	8.5				

Also supply an assembly drawing, dimensions, and to scale, in as many sections as are needed to show clearly the operation of the furnace.

\*STANDARD CONDITIONS: 70°F, 14.7 PSIA

## RECEIVED

Ball-InCon Glass Packaging Corp. 1509 South Macedonia Avenue Muncie, IN 47302-3664 (317) 741-7000

Reply to: P.O. Box 4200 Muncie, IN 47307-4200 JUN 30 1989

PUGET SOUND AIR POLLUTION CONTROL AGENCY

June 29, 1989



#### VIA FEDERAL EXPRESS

Puget Sound Air Pollution Control Agency 200 West Mercer Street, Room 205 Seattle, Washington 98119

Attn:

Anita J. Frankel, Air Pollution Control Officer

Re:

Section 9.25(b) - Notification

Ball-InCon Glass Packaging Corp. 5801 East Marginal Way South

Seattle, WA 98134

Dear Ms. Frankel,

Attached is information submitted in compliance with Regulation I, Section 9.25(b), which documents the means by which the #4 and #5 glass melting furnaces at our Seattle facility will achieve compliance with the 0.05 gr/dscf standard of Section 9.09(c). The installation of additional electric boost capacity will involve minimal construction.

Please note that the proposed date for the #5 installation is December, 1990, which is after the July 1, 1990 start date specified in Section 9.25(d). For scheduling reasons, we request that an extension be granted to allow installation to be made in December, 1990. The additional transformer capacity for the #4 system will be installed this year, in advance of the July 1, 1990 requirement. As we have stated previously, this work can only be done when the furnaces are at an idle condition for a period of several days. Our only opportunity is during the holiday production curtailment between Christmas and New Years' Day, and there is time for the installation of only one system during that period. Thus we request an extension so that the #5 system can be installed during the December, 1990 holiday curtailment and meet the final compliance date of January 1, 1991.

We have completed the Environmental Checklist as requested, even though it is designed for proposals with adverse environmental impacts; our proposal will result in air quality improvements. If there are any questions or further information is required, please call me at (317) 741-7145.

Sincerely,

Marvin C. Gridley Project Engineer

Attachments

NC 3265 8178

ittance Advice

nCon

3 Packaging Corp.

Date	Draft No.
07-11-89	180841

P25977 Invoice/Credit Memo Gross Туре Description Discount Net 1-89 License & Fee 150.00 150.00 #8178 RECEIVED JUL 13 1989 PUGET SOUND AIR POLLUTION CONTROL AGENCY 25001006441 2296120 ch Before Depositing Total > 150.00 5/87

Ball-InCon Glass **Packaging** Corp.

Pay to the order of

Accounts **Payable** Draft

Draft No.

180841

EXACTEGISDES DOCIS

Date

Draft amount

07-11-89

\$150.00\*\*\*\*

Ball-InCon Glass Packaging Corp.

Payable through Merchants National Bank, Muncie, Indiana 47305

PUCET SOUND AIR POLLUTION CONTROL AGENCY.

VEST MERCER ST. ROOM 205

TLE, WA. 98119-3958

Chief Financial Officer/Authorized Signature

TOOLELANDELLON OF REVIEWING ENGINEER		
inpany Ball Wan	Assigned to N/C # 3765	
wirce primare the furnity	Date Assigned 7/3/89   Rec'd 6/30/20	
conditional Approval Disapproval Disapproval	BACT/LAER Analysis:	
Circle All Applicable:		
NSPS PSD CEM Offset		
NESHAPS I/O/M Publish Class I		
isibility Model Monitor Screening Analysis Req'd Req'd Req'd		
Records Report Source Test		
ead Agency: PSAPCR	Source Located In: TSP-AA TSP-NAA	
other	Ozone-AA Ozone-NAA SO <sub>2</sub> -AA SO <sub>2</sub> -UNCL	
mission Calculations:		
Proposed TSP  (2.3) (8760)  2000	25.4 TPY	
pecific Conditions:	Emission Summary Emission: Increase Decrease No Change	
	+ - (blank)	
	Pollutant Part SO <sub>2</sub> NO <sub>X</sub> CO VOC Tons/Year /5.4	
	BACT Met	
	AQ Stds.	
	Review by Approval Date 7/5/89 Approval Date 7/5/89 Approval Date 7/5/89 Date 7/5/89	